

# Coconut Biodiesel

Biodiesel from coconut is the natural alternative to imported diesel in the Philippines. Coconut oil is transesterified into coco methyl ester (CME) and is referred to as coco-biodiesel when blended with fossil diesel.<sup>24</sup>

Coconut biodiesel is better than petroleum-based diesel because it protects car engines from wearing, cleans the fuel system, and scours the combustion chamber from carbon deposits.

Biodiesel is a renewable and biodegradable diesel fuel extracted from plant oil. A natural hydrocarbon with negligible sulfur content, it will substantially help in reducing emissions from diesel-fed engines. It is now commonly used in the US, Canada, Thailand and many countries in Europe.<sup>25</sup>

The Philippines has launched the use of biodiesel, particularly the CME, which is derived from coconut oil and is more appropriately known as Coco-Biodiesel. Compared with other forms of biodiesels, the medium carbon chain of Coco-Biodiesel offers excellent lubricity, solvency and detergency.



## Environmental and health benefits and characteristics of coco-biodiesel:

- Renewal and biodegradable, being plant-based
- Lowers emission of nitrous oxide and sulfur oxide
- Significantly reduces serious air toxics that cause lung cancer, pulmonary tuberculosis, pneumonia, bronchitis, heart attack and stroke
- Cuts vehicle maintenance costs because of its superior lubricating and cleaning properties
- Boosts engine power and acceleration
- Improves fuel economy by as much as 20%

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<sup>24</sup> Biodiesel, Industry Profile, <http://industry.gov.ph>. Accessed on 18 June 2020.

<sup>25</sup> Coco-Diesel Brochure, Philippine Coconut Authority, [www.pca.gov.ph](http://www.pca.gov.ph). Accessed on 07 June 2020.